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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,571	09/25/2003	Dirk Trossen	0172.42531X00	5229
20457	7590	08/26/2004	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			FERGUSON, KEITH	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/669,571

Applicant(s)

TROSSEN, DIRK

Examiner

Keith T. Ferguson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>20040816</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5, 8, 10-13, 16, 18-21, 23, 26, 27 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Abrol et al..

The claimed invention reads on Abrol et al. as follows:

Regarding claims 1, 2, 10, 11, 19, 26 and 27, Abrol et al. discloses a method (fig. 5) of handing over a mobile node from first access router (radio access network) (RAN) to a second access router radio access network) (RAN) (paragraph 0013) comprising: sending a request message from the second access router (RANB 34) to the mobile node (MS) (paragraph 0035 lines 1-5); and in response to the received request message, sending a connectivity report from the mobile node to the second access router (paragraph 0035 lines 1-10). Abrol et al. further discloses prior to sending the request message from the second access

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router to the mobile node (paragraph 0035 lines 1-5), the mobile node obtains connectivity with the second access router by moving into a geographic location associated with the second access router (paragraph 0035 lines 1-5).

Regarding claims 3, 12 and 20, Abrol et al. discloses an IP address of the first access router (paragraph 0026 and paragraph 0030).

Regarding claims 4, 13 and 21, Abrol et al. discloses identifier (PRE_PZID) of the first access router (RANA 32) (paragraph 0034 line 6 through paragraph 0035 line 16).

Regarding claim 5, Abrol et al. discloses an identifier (PPP) of an Access Point (PDSN) attached to the first access router (paragraph 0036).

Regarding claims 8, 16, 23 and 29, Abrol et al. discloses performing a handover of the mobile node from the first access router to the second access router after sending the connectivity (paragraph 0013 and paragraph 0037).

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Regarding claim 18, Abrol et al. discloses a mobile IP network (fig. 1 number 18) comprising: a first access router (fig. 1 number 32) sending a request message from the second access router (fig. 1 number 34) to the mobile node (MS) (fig. 1 number 2 and paragraph 0035 lines 1-5); and in response to the received request message, sending a connectivity report from the mobile node to the second access router (paragraph 0035 lines 1-10).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 6,7,14,15,24,25,30 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abrol et al. in view of Honkasalo et al..

Regarding claims 6,7,14,15,24,25,30 and 31, Abrol et al. discloses a method/network/access router as discussed supra in claims 1,10,18 and 26 above. Abrol et al. differs from claims 6,7,14,15,24,25,30 and 31 of the present invention in that it

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does not disclose the second access router selecting one mobile node from a plurality of mobile nodes in order to send the request message and the one mobile node is selected randomly from the plurality of mobile nodes. Honkasalo et al. teaches a base station for selecting one mobile station from a plurality of mobile station in order to allocate a packet data channel (page 6, claim 5) and the one mobile node is selected randomly (i.e. by the MAC_ID) from the plurality of mobile nodes (page 6, claim 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abrol et al. with the second access router selecting one mobile node from a plurality of mobile nodes in order to send the request message and the one mobile node is selected randomly from the plurality of mobile nodes in order for the RAN with the IP network to allocate a channel to the Mobile station based upon its previous PZID for continuous internet connection when performing a handoff, as taught by Honkasalo et al..

5. Claims 9,17,22 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abrol et al. in view of Koodi et al..

Regarding claims 9,17,22 and 28, Abrol et al. discloses a method/network/access router as discussed supra in claims 1,10,18 and 26 above. Abrol et al. differs from claims 9,17,22 and 28 of the present invention in that it does not disclose performing handover of the mobile node from the first access router to the second access router before sending the connectivity report. Koodi et al. teaches performing handover of the mobile node from the first access router (current router)(CR) to the second access router (new router)(NR) before sending the connectivity report (paragraph 0020 through paragraph 0024). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abrol et al. with performing handover of the mobile node from the first access router to the second access router before sending the connectivity report in order for the old RAN within the IP network to know the capabilities of the new RAN when providing seamless communication to the mobile station when roaming into the new RAN area, as taught by Koodi et al..

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reddy et al. (U.S. 20010044305) discloses a mobile station comprising a plurality of IP address stored within when making a handoff decision from serving access router. Subbiah et al. (U.S. 20020191627) discloses an IP address of an access router.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (703) 305-4888. The examiner can normally be reached on 6:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith Ferguson
Art Unit 2683
August 16, 2004

A handwritten signature in black ink, appearing to read 'Keith Ferguson', is written over the typed name.